“The Wonder of Water”—Teachers Guide MINNESOTA CONSERVATION VOLUNTEER Study Questions

“The Wonder of Water,” by Mary Hoff. Illustrations by Taina Litwak

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Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Why is a compound as common as water considered a “weird” chemical substance?
2. Which atoms make up a water molecule? What holds the atoms in a water molecule together?
3. Water exists in three forms; name them.
4. How does temperature affect water?
5. Explain how water molecules move through the water cycle.
6. Why does life on Earth depend on the water cycle?
7. Explain the difference between cohesion and adhesion. Give an example of each.
8. Water molecules move from a plant’s roots to its leaves. How?
9. Why don’t water striders sink?
10. Why doesn’t ice sink?
11. How do the oceans help control Earth’s climate?
12. Explain how pollution and water are related?

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period \_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Select the best response.

1. Water is a strange substance because

A. it defies gravity.

B. in solid form it floats.

C. it’s found everywhere.

D. A and B.

2. In a water molecule

A. there are one hydrogen atom and two oxygen atoms.

B. there are two hydrogen and two oxygen atoms.

C. there are one oxygen and two hydrogen atoms.

D. all atoms have negative charges.

3. The movement of water throughout the environment is called

A. surface tension.

B. the water cycle.

C. capillary action.

D. climate.

4. Plants use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to move water from the soil to their leaves.

A. surface tension

B. gravity

C. hydrogen bonds

D. capillary action

5. Because water dissolves more substances than any other liquid, it is called the

A. universal cleaner.

B. universal solvent.

C. oxygen solvent.

D. hydrogen solvent